

## CLIMATOLOGICAL DATA FOR OCTOBER, 1912.

## DISTRICT No. 7, LOWER MISSISSIPPI VALLEY.

ISAAC M. CLINE, District Editor. EDWARD D. COBERLY, Acting District Editor.

## GENERAL SUMMARY.

Warm weather prevailed during the first decade, but on the 11th a cool wave of moderate intensity overspread the district and temperatures continued low until the 16th. From the 17th to the close of the month temperature conditions were moderate, except that from the 29th to 31st the weather was quite cool over the western portion of the district. The precipitation occurred generally in three periods; in the western portion of the district from the 1st to 10th, 19th to 22d, and 27th to 31st, while over the eastern portion it occurred generally from the 9th to 13th, 17th to 23d, and 30th and 31st, except in Louisiana and Mississippi, where it nearly all occurred in single periods, 10th to 19th in Louisiana, and 12th to 23d in Mississippi. The precipitation was generally light over the southern and western portions of the district, and moderately heavy over the northeastern and north-central portions. The weather was favorable for outdoor occupations.

The following table summarizes the chief features of meteorological interest in the various portions of the district:

States and portions of States lying within District No. 7.	Mean temperature.	Departure from normal.	Mean precipitation.	Departure from normal.	Greatest precipitation in 24 hours.	Mean snowfall.	Number of days.			Prevailing direction of wind.
							With 0.01 inch, or more.	Clear.	Partly cloudy.	
Colorado.....	46.8	-1.0	1.04	-0.30	1.25	7.8	5	19	7	s.w.
New Mexico.....	52.1	-1.5	0.40	-0.64	1.05	0.8	2	21	8	s.w.
Texas.....	61.7	+1.4	1.46	-0.57	6.34	0.2	2	20	6	s.
Kansas.....	59.0	+1.0	2.50	+0.22	5.25	0.1	4	19	6	s.
Oklahoma.....	63.4	+2.9	2.74	+0.26	4.24	0.1	4	20	6	s.
Missouri.....	60.0	+2.0	3.88	+1.16	5.12	T.	6	20	6	s.
Tennessee.....	61.9	+1.7	2.66	+0.34	2.07	0	5	18	6	s.
Arkansas.....	63.8	+1.8	2.97	+0.78	4.66	0	4	18	8	s.w.
Mississippi.....	67.1	+2.9	2.12	-0.14	3.78	0	4	17	6	s.e.
Louisiana.....	69.4	+2.4	1.76	-0.81	5.56	0	4	16	6	n.

## TEMPERATURE.

Mean temperatures were from  $0.9^{\circ}$  to  $5.2^{\circ}$  below the normal over the Colorado and New Mexico areas, while elsewhere over the district there was an excess of from  $0.8^{\circ}$  to  $4.0^{\circ}$ . Over many portions of the district high temperatures occurred during the first decade, the monthly maximum readings being above  $90^{\circ}$  in all parts of the district, except in the Colorado and New Mexico areas. The highest temperature recorded,  $99^{\circ}$ , occurred at Hennessey, Okla., and a maximum reading of  $98^{\circ}$  was

recorded at Bonham, Tex., and  $97^{\circ}$  at Utica, Miss., and at Amite, Cameron, Liberty Hill, and Reserve, La. The monthly minimum temperatures occurred during the first decade generally, and the lowest readings for the month were  $32^{\circ}$ , or lower at some stations in all parts of the district, except in southern Louisiana and Mississippi. The lowest temperature recorded,  $5^{\circ}$ , occurred at Elizabethtown, N. Mex., and a minimum reading of  $7^{\circ}$  was recorded at Leadville, Colo.

## PRECIPITATION BY DRAINAGE AREAS.

*Arkansas River and tributaries.*—The precipitation was unevenly distributed over this drainage area. In Colorado the average from 34 stations was 1.10 inches, about 0.3 inch below the normal. Over those portions of the Arkansas Valley proper that lie in Kansas and Oklahoma, the average from 41 stations was 2.55 inches, about 0.7 inch below the normal amount. In the Canadian Valley the average from 74 stations was 0.96 inch, about 0.5 inch below the normal. The amounts from 21 stations in the Cimarron Valley averaged 1.22 inches, about 0.2 inch below the normal. Over the Verdigris and Neosho Valleys the precipitation was heavy and the amounts from 19 stations averaged 4.35 inches, about 1.6 inches above the normal. Below the Oklahoma-Arkansas line the precipitation over the Arkansas Valley proper was moderately heavy, and the amounts from 13 stations averaged 3.68 inches, about 1.2 inches above the normal.

*Red River and tributaries.*—Less than the normal precipitation occurred in nearly all portions of this drainage area, except that there was an excess at some stations in southern Oklahoma and northern Texas. Over those portions of the Red River Valley that lie in New Mexico, Texas, and Oklahoma, the average from 43 stations was 2.12 inches, about 0.3 inch below the normal. Below the Texas-Arkansas line, the average from 19 stations was 1.08 inches, about 0.3 inch below the normal.

*Mississippi River south of St. Louis and small tributaries.*—More than the normal precipitation occurred generally over the northern portion of this drainage area, while over the southern portion there was a general deficiency, and the amounts were unevenly distributed. In the immediate Mississippi Valley, the amounts from 35 stations averaged 2.56 inches, about 0.2 inch below the normal. The average from 23 stations in the Valley of the White River was 3.04 inches, about 0.9 inch below the normal. The average for the Valley of the Big Black, derived from the records of four stations, was 1.69 inches, about 0.7 inch below the normal. In the Ouachita Valley the average from 22 stations was 2.34 inches, about 0.1 inch above the normal. Over the Yazoo

Valley the precipitation was uniformly light and deficient, the average derived from the records of 16 stations being 1.08 inches, about 1.6 inches below the normal.

#### SNOWFALL.

Snow occurred generally over the Colorado, New Mexico, and Kansas areas, and at scattered stations in the northern and western portions of Oklahoma, and the western portion of the Texas Panhandle. Except in the elevated portions of the Colorado and New Mexico areas, the snowfall was generally light, and disappeared from the ground practically as soon as it fell. In the Colorado area the total amounts ranged from a trace to 40.5 inches, and the average for the area was 7.8 inches. In the New Mexico area the amounts were generally lighter and ranged from a trace to 5 inches, there being generally a marked deficiency in the snowfall, especially over the more elevated mountains in the northern counties. The snow on the lowlands disappeared very quickly.

#### RIVERS.

In Oklahoma no floods were reported, and there were no decided changes in the stages of the streams. The rivers continued generally below the normal for the season.

In Kansas the Cottonwood River rose 15.7 feet at Emporia on the 12th-13th, but fell rapidly afterwards. The Neosho rose 15.3 feet at Neosho Rapids on the 12th-13th, and 9.2 feet at Oswego from the 15th to 17th, but fell rapidly in each instance.

The Arkansas River remained low throughout the month, and at Little Rock it was navigable only on one day, the 20th, when the highest stage of the month, 3.8 feet, occurred.

The Black and White Rivers were both at unusually low stages during the entire month.

The Mississippi River below St. Louis was low throughout the month and fell steadily from the 1st to 20th, after which there were a few slight though unimportant rises.

TABLE 1.—Climatological data for October, 1912. District No. 7, Lower Mississippi Valley.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.				Precipitation, in inches.				Number of rainy days, 0.01 inch or more.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.			
<i>Colorado.</i>																	
Buena Vista.....	Chaffee.....	7,955	12	46.8	- 1.1	73° 4	188	31 35	0.83	- 0.10	0.40	7.0	5 19	4	S s.	C. A. Short.	
Calhan.....	El Paso.....	6,700	5	46.8	- 1.1	78° 4	29	22† 37	0.70	- 0.13	0.37	4.0	5 21*	5 4*	sw.	H. B. Rice.	
Canon City.....	Fremont.....	5,343	24	52.2	- 1.1	80° 4	29	22† 37	0.70	- 0.13	0.37	0.5	5 24	4 3	n.	U. S. Weather Bureau.	
Colorado Springs.....	El Paso.....	6,098	32	46.6	- 1.7	70 3	27	29† 33	0.62	- 0.04	0.29	3.6	7 16	9 6	se.	Colorado College.	
Cripple Creek.....	Teller.....	9,396	11						0.84	- 0.10	0.35	5.9	5			F. G. Willis.	
Cuchara Camps.....	Huerfano.....	8,200	3						1.75		0.92	10.5	6 21	8 2	sw.	George A. Mayes.	
Eads.....	Kiowa.....	4,209	5	62.2	- 80*	2	40*	30 23	0.30		0.30	0	1 22*	6*	se.	Mrs. Mattie A. Kerr.	
Fairview.....	Custer.....	9,500	3						1.50		0.90	20.0	4 12	13 6	e.	Elizabeth L. Grey.	
Fremont Exper. Sta.....	El Paso.....	8,850	2	39.0	- 64	3†	14	30† 35	1.59		0.67	8.7	4 16	12 3	w.	U. S. Forest Service.	
Garfield.....	Chaffee.....	9,510	2						1.12		0.38	11.8	8 21	5 5	w.	Lloyd N. Felton.	
Hamps.....	Elbert.....	5,400	19	46.6	- 0.6	77 4†	18	30 47	0.54	- 0.09	0.21	4.5	4 19	7 5	s.	W. Hamp.	
Hermit Lake.....	Custer.....	10,000	2						4.44		1.20	36.0	7 12	9 10	sw.	John E. Graham.	
Hoechne (near).....	Las Animas.....	5,700	20	52.4	+ 0.6	80 3†	21	29 48	0.46	- 0.55	0.46	0	1 25*	2 3*	sw.	S. W. DeBusk.	
Holly.....	Prowers.....	3,350	17													Holly Sugar Co.	
Lake Moraine.....	El Paso.....	10,265	18	36.8	- 0.6	61 17	9	31 43	1.67	- 0.09	0.58	16.8	7 15	8 8	sw.	Clyde C. McReynolds.	
Lamar.....	Prowers.....	3,592	22	50.2	- 5.2	88 4	24	22 49	0.32	- 0.67	0.32	0	1 26	2 3	se.	J. T. Lawless.	
Las Animas.....	Bent.....	3,899	44													F. M. Tague.	
La Veta Pass.....	Costilla.....	9,000	2													Clara M. Wright.	
Leadville.....	Lake.....	10,248	16	35.2	- 1.8	60 3	7	31 42	1.73	+ 0.76	0.69	24.7	11 17	10 4	n.	U. S. Weather Bureau.	
Limon (near).....	Elbert.....	5,360	5	47.0	- 79*	4	22*	29† 45	0.58	- 0.12	0.46	T.	4 23*	2 4*	s.	F. L. Palmer.	
Madrid.....	Las Animas.....	6,361	2													Thos. Sawers.	
Marshall Pass.....	Saguache.....	10,846	9						1.58		0.95	19.0	7 11	12 8	sw.	W. L. Williams.	
Maxey.....	Baca.....								T.		T.	T.	0 22	6 3	s.	L. H. Alberti.	
Monument.....	El Paso.....	7,200	1	43.5		70 4†	18	30† 40	1.81		1.25	3.0	4 19	5 7	se.	U. S. Forest Service.	
North Lake.....	Las Animas.....	8,700	20						1.28		0.27	0.62	4.5	5 24	5 2	nw.	James W. Ingmire.
Pueblo.....	Pueblo.....	4,734	24	51.4	- 0.9	83 4	24	31 46	0.58		0.12	0.27	4.2	4 22	7 2	nw.	U. S. Weather Bureau.
Rocky Ford (near).....	Otero.....	4,177	23	52.4	- 0.5	84 4	23	22 54	0.40	- 0.48	0.18	2.0	3 26	3 2	e.	P. K. Blinn.	
St. Elmo.....	Chaffee.....	9,500	3						1.31		0.32	10.5	8 17	7 7	sw.	Daniel Clark.	
Salida.....	do.....	7,035	13	43.5	- 3.5	72 3†	15	22 50	0.87	- 0.25	0.42	3.5	5 24	3 4	w.	M. D. L. Biell.	
Santa Clara.....	Huerfano.....	8,252	17	46.6	+ 2.0	74 4	18	31 40	0.92	- 1.33	0.59	2.0	6 12	17 2	sw.	Lincoln G. Morris.	
Sheridan Lake.....	Kiowa.....	4,065	10													Howard Gamble.	
Stonewall.....	Las Animas.....	8,000	6						1.40		0.30	T.	5 14	9 8	w.	G. A. Storz.	
Trinidad.....	do.....	5,904	16	51.6		77 17	24	31 42	0.42	- 0.85	0.37	T.	4 16	11 4	sw.	Walter Dearden.	
Two Buttes.....	Baca.....	4,100	1													N. G. Jones.	
Two Buttes Res'vr.....	do.....								0.19		0.10	T.	3 27	1 3	s.	Two Buttes Irrigation & Reservoir Co.	
Victor (near).....	Teller.....	10,100	8	39.8		60 4	13	31 28	0.86		0.40	3.5	4 22	6 3	w.	Fred Jones.	
Vils.....	Baca.....	3,935	21						T.	- 0.74	T.	0	19 11	1 1	sw.	David Konkel.	
Wayne.....	El Paso.....		1						0.55		0.46	T.	2 24	3 4	se.	J. C. Groff.	
Westcliffe.....	Custer.....	7,864	18	43.0	- 0.1	71 3†	15	22 53	0.88	- 0.72	0.36	7.0	5 11	10 10	sw.	Zack Jordan.	
Winfeld.....	Chaffee.....	9,765	2													John G. Payne.	
Woodman Sanatorium.....	El Paso.....		11,250	11	43.2	- 75	4	18 31	0.48		0.25	6.0	3 29	0 2	s.	Woodman Sanatorium.	
Wortman.....	Lake.....								2.22	+ 0.37	0.40	40.5	8 7*	6*	nw.	George C. Wortman.	
<i>New Mexico.</i>																	
Abbott.....	Mora.....	5,771	3			80 4†	18	15 15	T.		T.	T.	0 24	7 0	s.	Agent E. P. & S. W. Ry.	
Albert.....	Union.....	4,700	22	56.6	- 1.3	86 22	27	31 50	T.	- 0.88	T.	T.	0 24	7 0	w.	Martin Desmet.	
Aurora.....	Colfax.....	8,849	3			85 3†	25	23 51	0.60		0.14	3.0	9 5	20 6	sw.	Juanita Lucero.	
Bell Ranch.....	San Miguel.....	4,500	13	56.4					0.11	- 0.65	0.11	T.	1 18	10 3	sw.	C. M. O'Donel.	
Black Lake.....	Colfax.....	8,348	3						1.37		0.66	2.0	9 20	2 2	sw.	Ralph T. Martinez.	
Cabeza.....	San Miguel.....	5,406	3						0.05		0.05	T.	1 20	9 3	sw.	Agent E. P. & S. W. Ry.	
Campana.....	do.....	4,493	3	57.7		80 2†	30	31 36	1.48		0.25	T.	1 24	7 0	w.	Do.	
Cimarron (near).....	Mora.....	9,000	3						0.25		0.25	T.	1 24	8 5	w.	Alfred Lucero.	
Clayton.....	Colfax.....	6,385	8	49.6		77 18	19	22 49	1.25		0.65	0.5	4 18	8 5	w.	Wm. French.	
Clivus.....	Union.....	5,178	7													Dr. W. W. Chilton.	
Cuervo.....	Curry.....	4,129	1	61.4		89 22	30	29 41	T.		T.	T.	0 22	4 5	sw.	J. H. Barry.	
Dawson.....	Guadalupe.....	4,849	3	59.2		78 8	32	31 32	T.		T.	T.	0 25	4 4	nw.	Agent E. P. & S. W. Ry.	
Elizabethtown.....	Colfax.....	6,396	3	49.1		78 3	18	31 42	0.98		0.90	1.0	2 14	14 3	sw.	Do.	
Folsom.....	Union.....	8,399	12	49.9	+ 0.4	70 19	5	31 55	1.56		1.05	6.0	6 12	17 2	sw.	Mabel Carrington.	
Fort Union.....	Mora.....	6,835	52	47.3	- 3.2	76 1	14	22 51	0.42	- 0.66	0.35	1.0	2 27	2 2	e.	David Rope.	
Hayden.....	Union.....	4,444	2	55.2		86 4	21	22 40	0.24		0.18	0.15	2 19	11 1	sw.	M. C. Needham.	
Hoosier Ranch.....	Mora.....		1						0.25		0.25	0	1 21	10 0	s.	J. B. Dickson.	
Johnsons Park.....	Colfax.....	6,722	3						0.66		0.35	T.	4 25	3 3	sw.	W. H. Guthman.	
Johnsons Ranch.....	Mora.....	5,784							0.20		0.20	T.	0 20	2 0	sw.	A. J. Meloche, jr.	
Kappus.....	Quay.....	4,010	1						0.20		0.10	0	0 2			J. W. Johnson.	
Lake Alice.....	Colfax.....	7,160	3						0.22		0.22	3.0	2 2			A. Kappus.	
Logan.....	Quay.....	3,851	6	55.4		86 5	25	22 51	0.08		0.05	0	1 27	4 0	sw.	Jesse T. Rickman.	
Lykins (near).....	Roosevelt.....	5,000	2						0.77		0.35	T.	0 27	6 1	sw.	John B. Reneau.	
Maxwell (near).....	Colfax.....	5,894	5						0.45		0.25	0	3 24	6 1	sw.	J. G. Buchanan.	
Melrose.....	Curry.....	4,400	4						0.21		0.19	0.5	2 18	13 0	sw.	D. N. Jackson.	
Miami Ranch.....	Colfax.....	6,000	4	49.2		76 3†	20	22 50	0.77		0.54	0	3 18	13 0	sw.	Dr. B. M. Porter.	
Mills (near).....	Mora.....	5,985	1						0.33		0.31	T.	2 23	4 4	sw.	Farmers Development Co.	
Montoya.....	Quay.....	4,335	3						0.22		0.22	T.	0 26	3 2	sw.	J. E. LaRue.	
Mount Dora (near).....	Union.....	5,600	1						0.21		0.18	2.0	3 27	2 2	sw.	Agent E. P. & S. W. Ry.	
Nara Visa.....	Quay.....	4,225	6						0.06		0.18	2.0	3 27	2 2	sw.	E. U. Jacobs.	
Palo Verde.....	Mora.....	5,880	1						0.41		0.18	2.0	3 27	2 2	sw.	Willard Belknap.	
Pasemonte.....	Union.....		3						0.21		0.19	0.5	2 18	13 0	sw.	G. R. Abernathy.	
Pleasant View.....	Mora.....	1							0.06		0.05	T.	2 27	2 2	sw.	J. J. Heringa.	
Portales.....	Roosevelt.....	4,004	2	51.8		78 3	26	21 35	0.31		0.27	0	3 18	11 2	e.	R. W. Boulware.	
Raton.....	Colfax.....	6,660	14	49.2	- 1.4	78 19	23	22 44	0.52	- 0.32	0.33	0.5	3 23	5 3	sw.	Portales Irrigation Co.	
Rociada.....	San Miguel.....	8,200	8	59.4		60 1	17	31 30	1.32		0.96	3.5	3 15	3 3	w.	Humphrey & Wiseman.	
Rosebud.....	Union.....	4,500	1						T.		T.	T.	0 27	4 0	w.	J. E. Dailey.	
Roy.....	Mora.....	5,884	3														

TABLE 1.—Climatological data for October, 1912. District No. 7—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.				Precipitation, in inches.				Sky.	Prevailing wind direction.	Observers.			
				Mean.	Departure from the normal.		Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmeasured.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.			
					Highest.	Date.											
<b>Texas.</b>																	
Amarillo.	Potter.	3,676	20	58.2	+ 2.1	83 4	28 22	40	0.39	- 1.32	0.25	0.6	4	21 9	1 sw.	U. S. Weather Bureau.	
Archer City.	Archer.		1						3.47		1.91	0	5	18 11	2 s.	Charles H. Thurman.	
Arthur City.	Lamar.	590	20						0.00	- 3.01	0.00	0	0	22 1	8 sw.	C. A. Lowrey.	
Bonham.	Fannin.	566	9	69.4		98 4†	35 23	45	1.80		0.90	0	3	21 5	5 sw.	H. M. Norman.	
Canadian.	Hemphill.	2,339	5							2.64	+ 0.39	1.44	0	12	16 12	3 n.	J. M. Shaw.
Childress.	Childress.	1,869	19							2.54		1.80	0	5			George Baker.
Chillicothe.	Hardeman.	1,406	4								0.30	0	3	18 8	5 se.	A. B. Connor.	
Clarendon.	Donley.	2,719	7	59.6	- 0.7	90 4	29 30	49	0.44		0.42	2.75	0	1	12 7	5‡ se.	Whitfield Carhart.
Clarksville.	Red River.	442	12	67.2	+ 0.8	94 5†	40 22†	44	2.75		T.		0	0			J. W. O'Neill.
Claude.	Armstrong.	3,397	7								T.		0				Ft. W. & D. C. Ry.
Dalhart.	Dallam.	3,998	12	54.8		84 4	24 22	45	0.05		0.03	0	2				W. D. Griggs.
Denison.	Grayson.								3.85	+ 0.18	2.10	0	4	10 4	17	J. L. Wilson.	
Finley.	Bowie.		2						1.10		1.10	0	1	26 1	4 s.	Robert L. Smith.	
Henrietta.	Clay.	915	20	68.0	+ 2.7	96 4	41 23†	36	3.55	+ 1.45	2.30	0	2	22 3	6 s.	C. K. Brown.	
Memphis.	Hall.	2,067	7	60.8		91 3	36 1†	39	2.18		1.00	0	3	27 0	4 s.	Ft. W. & D. C. Ry.	
Miami.	Roberts.	2,743	6	60.4		89 4	25 30	46	0.37		0.26	0	0	27 1	3 s.	J. E. Kinney.	
Ochiltree.	Ochiltree.		4						0.00		0.00	0	0			J. S. Allen.	
Panhandle.	Carson.	3,450	3						0.02		0.02	0	1	26 2	3	J. Sid O'Keefe.	
Paris.	Lamar.	592	23	66.3	+ 0.6	94 4	40 23	38	1.64	- 0.68	1.23	0	3	16 6	9 e.	Robert A. Miller.	
Plemons.	Hutchinson.		5	57.4		88 4	21 22	52	0.07		0.06	0	2	25 2	4 s.	C. S. Solonion.	
Quanah.	Hardeman.	1,563	10	64.8		93 5	38 27	36	2.65	+ 0.89	1.75	0	3	17 2	12 s.	William H. Crawford.	
Ringo Crossing.	Hopkins.		2						2.25		2.00	0	2	16 4	11 se.	H. J. Palmer.	
Romero.	Hartley.		2	56.7		95 4	32 22	46	0.08		0.06	T.	2	23 3	3 s.	R. S. Chamberlain.	
Sherman.	Grayson.	745	19	67.8	+ 2.5	91 4	44 23†	31	0.89	- 2.43	0.42	0	3	16 10	5 s.	R. A. Gibbs.	
Stratford.	Sherman.	3,699	56.7			85 4†	23 22	46	0.03		0.03	T.	1	22 5	4 s.	J. W. Elliott.	
Texline.	Dallam.	4,964	7						2.25		2.00	0	2	16 7	4 s.	Ft. W. & D. C. Ry.	
Tulia.	Swisher.	3,501	14	57.8	- 0.4	88 6	25 22	46	0.65	- 1.31	0.40	T.	2	20 7	4 s.	Lou Mulhall.	
Wellington.	Collingsworth.								3.50		2.00	0	3			J. D. Camp.	
Wichita Falls.	Wichita.	958	20						2.43		1.90	0	5	8 18	5 se.	E. F. Mittman.	
Winfield.	Titus.		2													J. B. Newberry.	
<b>Kansas.</b>																	
Alden.	Rice.	1,684	2						2.66		2.30	T.	2	22 0	9 9	se.	L. B. Wait.
Anthony.	Harper.	1,329	15	61.8		91 4	31 23	45	1.06	- 1.21	0.85	0	3	16 9	6 sw.	R. H. Beebe.	
Ashland.	Clark.	1,451	24	59.8	+ 1.6	91 4	26 22	53	0.34	- 1.54	0.20	T.	4	21 6	4 s.	C. W. Carson.	
Burlington.	Coffey.	1,010	19	59.1	+ 0.6	93 6	23 23	51	2.01	- 0.41	1.93	T.	2	1 25	5 s.	O. E. Sanford.	
Chanute.	Neosho.	940	8	61.2		96 6	33 3	46	4.39		2.26	0.5	4	5 24	2 s.	C. W. Brown.	
Cimarron.	Gray.	2,700	6	56.4		87 4†	20 22	61	0.35		0.20	T.	2	22 <sup>b</sup> 3 <sup>b</sup>	4 <sup>b</sup> s.	C. C. Isely.	
Coffeyville.	Montgomery.	747		61.4		96 8	30 23	42	3.84		2.00	T.	4	19 5	7 s.	A. F. Briggs.	
Coldwater.	Comanche.	2,090	15	59.8	+ 1.8	90 4	27 22	42	0.80	- 1.12	0.47	T.	2	24 4	3 s.	J. L. Stanley.	
Columbus.	Cherokee.	898	22						2.25		2.00	0	2			O. E. Skinner.	
Coolidge.	Hamilton.	3,348	15	54.2	+ 1.0	88 27	19 22	60	0.03	- 0.96	0.03	0.2	1	24 3	4 s.	W. R. Padley.	
Cottonwood Falls.	Chase.	1,234	8	60.1		90 4†	29 30	47	4.25		2.40	0.2	5	21 2	8 s.	E. B. Greene.	
Council Grove.	Morris.	1,234	3	59.0		88 5	31 22†	42	6.58		5.25	T.	6	18 8	5 s.	J. P. Blackledge.	
Cunningham.	Kingman.	1,680	28						0.71		0.52	T.	3	23 4	3 s.	W. H. Morton.	
Dodge City.	Ford.	2,513	38	56.3	+ 1.6	86 4	26 22	40	0.15	- 1.25	0.12	T.	4	22 5	4 s.	U. S. Weather Bureau.	
El Dorado.	Butler.	1,291	10	59.0		87 4	22 40	49	2.49		0.90	T.	6	24 3	4 s.	W. Y. Miller.	
Ellinwood.	Bartow.	1,590	37	58.6	+ 1.9	90 4	26 22	44	1.17	- 0.72	0.94	T.	4	18 9	4 s.	Martin Musil.	
Emporia.	Lyon.	1,138	31	59.9	+ 2.5	89 6	32 22†	46	4.23	+ 1.52	2.20	2.0	5	19 5	5 s.	W. H. Boyles.	
Eureka.	Greenwood.	1,079	16	59.2		92 6†	24 23	49	2.79	- 0.26	2.15	0.5	6	19 7	5 s.	Mrs. T. C. Peffer.	
Fall River.	do.	925	16	59.4	+ 0.3	95 6	27 23	42	4.62	+ 2.50	2.75	T.	4	20 <sup>c</sup> 7 <sup>c</sup>	1 s.	J. McDaniel.	
Fargo.	Seward.		2						0.71		0.27	T.	1	27 3	1 s.	N. B. Swink.	
Fredonia.	Wilson.	975	9	61.2		95 6	32 31	38	4.50		2.44	1.5	4	20 4	7 s.	B. W. Holmes.	
Garden City.	Finney.	2,836	23	56.4	+ 0.8	88 4	25 30	52	0.15	- 0.93	0.15	T.	1	18 8	5 s.	B. F. Stocks.	
Great Bend.	Barton.	1,850	3						0.71		0.52	T.	3	24 3	3 s.	I. Pritchard.	
Greensburg.	Kiowa.	2,235	5	60.0 <sup>b</sup>		88 4	25 <sup>b</sup> 22	41	1.16		0.67	T.	3	23 4	4 s.	C. C. Raymond.	
Grenola.	Elk.	1,116	24	60.0	+ 0.7	92 4	29 23	45	6.29	+ 3.56	3.65	T.	5	20 6	5 sw.	W. H. Lawyer.	
Hess.	Gray.	6		55.4 <sup>b</sup>		88 5	23 22	44	0.28		0.10	T.	4	17 <sup>b</sup> 1 <sup>b</sup>	5 <sup>b</sup> se.	Harry Jacques.	
Howard.	Elk.	1,112	5	50.5		91 6	29 23	47	4.54		2.39	T.	5	20 <sup>b</sup> 4 <sup>b</sup>	6 <sup>b</sup> n.	J. W. Eby.	
Hugoton.	Stevens.	8														F. A. McCoy.	
Hutchinson.	Reno.	1,535	22	58.4	- 0.4	92 4	30 22	46	1.52	- 1.07	0.66	T.	5	23 3	5 s.	Sheridan Plough.	
Independence.	Montgomery.	500	38	61.4	+ 1.2	94 6	29 23	50	4.25	+ 1.31	2.22	1.0	6	20 5	4 s.	F. L. Kenoyer.	
Iola.	Allen.	984	6	59.0	+ 2.1	92 6	29 23	44	3.59	+ 1.32	2.63	T.	4	19 8	5 s.	U. S. Weather Bureau.	
Irene.	Hamilton.	3,440	22	53.8		90 <sup>b</sup> 4	20 22	52	0.19		0.08	T.	3	15 <sup>b</sup> 6 <sup>b</sup>	5 s.	N. M. Herbig.	
Jetmore.	Hodgeman.	2,268	11	56.4		88 4	22 30	49	0.14	- 1.35	0.14	T.	1	16 10	5 s.	J. James Aiken.	
Kingman.	Kingman.	1,504	4	60.2		89 4	32 22	44	1.83		0.67	T.	5	20 8	3 s.	B. B. Anawalt.	
La Crosse.	Rush.	2,061	10						1.79		0.67	T.	5			Rodney Torrey.	
Lakin.	Kearney.	2,993	22	53.0	- 2.0	86 4	18 22	51	T.	- 0.93	0.93	T.	5	22 8	1 s.	C. H. Longstreth.	
Larned.	Pawnee.	2,090	27	58.4		89 4	24 22	42	0.64	- 0.85	0.39	T.	4	22 4	7 s.	H. H. Wolcott.	
Lebo.	Coffey.	1,138	20	59.0	+ 1.7	90 6	32 22†	38	3.35	+ 0.60	1.47	T.	5	20 4	7 s.	J. J. Bowman.	
Le Roy.	do.	990	3						2.70		2.38	T.	5	20 4	7 s.	F. W. Schmitt.	
Liberal.	Seward.	2,843	5	58.3		88 4	26 22	48	0.47		0.44	T.	5	20 6	5 s.	Dr. R. T. Nichols.	
Macksville.	Stafford.	2,032	23	58.6	+ 2.3	87 4	25 22	43	1.79	- 0.40	1.12	T.	5	24 3	4 s.	Mrs. Nelia Poling.	
McPherson.	McPherson.	1,495	11	57.9	- 0.7	90 4	29 22	41	3.21	+ 0.49	2.23	T.	5	25 2	2 s.	Ed. F. Haberlein.	
Madison.	Greenwood.	1,074	11	58.3	+ 0.7	93 6	23 23	53	2.63	- 0.34	2.00	T.	3	16 13	2 s.	C. A. David.	
Marion.	Marion.	1,310	19	59.4	+ 0.5	90 4	30 22	45	6.52	+ 4.24	5.20	0.5	6	19 9	3 s.	Jerry Forney.	
Medicine Lodge.	Barber.	1,259	19	60.0	+ 0.6	92 4	28 22	48	1.54	- 0.							

TABLE 1.—Climatological data for October, 1912. District No. 7—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Sky.				Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeted.	Number of rainy days.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
<b>Oklahoma.</b>																				
Ada.	Pontotoc.	1,001	4	65.2	.....	94	4	35	23	37	5.48	.....	3.88	0	7	19	9	3	s.	W. S. Creveling.
Alva.	Woods.	1,350	7	61.3	.....	94	4	32	22	48	1.22	.....	0.94	0	3	15	12	4	s.	S. A. Stech.
Apache.	Caddo.	1,255	2	64.4	.....	96	4	31	23	45	2.58	.....	1.39	0	3	22	7	2	s.	G. D. Teeter.
Arapaho.	Custer.	1,575	18	65.8	+ 4.4	94	.....	38	23	40	2.07	- 0.08	1.85	0	2	27	2	2	s.	J. C. Brower.
Ardmore.	Carter.	872	10	67.2	+ 3.2	97	4	39	23	37	2.98	- 0.37	2.15	0	4	17	8	6	s.	H. T. Nisbett.
Arnett.	Ellis.	2,136	8	.....	.....	95	6	32	23	45	2.45	.....	1.53	0	5	20	4	7	se.	C. H. Holmes.
Bartlesville.	Washington.	687	4	62.5	.....	95	6	32	23	45	2.45	.....	0.93	0	31	23	5	3	s.	Dr. A. P. Owens.
Beaver.	Beaver.	2,500	15	58.0	- 0.1	89	4	22	22	45	0.35	.....	0.31	0	2	23	5	3	s.	W. C. Frazer.
Blackburn.	Pawnee.	800	10	.....	.....	91	4	28	23	45	3.66	.....	1.86	0	3	20	9	2	n.	M. M. Rhodes.
Cache.	Comanche.	1,350	6	61.0	.....	91	4	28	23	45	3.53	.....	2.65	0	5	19	0	12	s.	Mrs. Frank Rush.
Calvin.	Hughes.	713	7	.....	.....	90	.....	35	23	39	1.10	.....	0.80	0	2	22	8	1	s.	Thomas Purcell.
Chandler.	Lincoln.	865	10	.....	.....	93	4	35	23	40	3.17	.....	1.66	0	4	19	9	3	se.	Chas. L. Kern.
Chattanooga.	Comanche.	1,150	6	64.4	.....	93	4	35	23	40	3.17	.....	0.80	0	4	19	9	3	se.	Squire Humble.
Chickasha.	Grady.	1,091	10	.....	.....	95	4	34	22	42	1.52	.....	0.42	0	5	18	10	3	s.	J. C. Good.
Cloud Chief.	Washita.	1,400	10	64.6	+ 2.5	95	4	34	22	42	1.52	.....	0.42	0	5	18	10	3	s.	J. P. Stutzman.
Crawford.	Roger Mills.	627	7	62.7	.....	89	5	31	22	39	0.90	.....	0.90	0	1	25	6	0	s.	W. W. Blackburn.
Durant.	Bryan.	643	10	65.0	+ 1.7	93	3	37	36	22	3.94	- 0.05	1.55	0	5	24	5	2	n.	Nelson Houk.
Eldorado.	Jackson.	1,456	5	64.0	.....	94	4	35	22	46	1.45	.....	0.61	0	5	22	8	1	s.	T. W. Lanham.
Elk City.	Beckham.	626	6	62.6	.....	90	.....	35	23	39	1.10	.....	0.80	0	2	22	7	1	s.	R. J. Carlile.
EI Reno.	Canadian.	1,400	20	66.6	+ 5.0	95	.....	35	23	40	3.43	+ 1.36	1.71	0	5	22	5	3	nw.	Rose F. Walker.
End.	Garfield.	1,269	10	61.3	.....	97	5	38	22	42	2.39	.....	1.25	0	4	24	5	2	s.	Uri B. Worcester.
Erick.	Beckham.	2,058	7	63.1	.....	91	.....	30	23	48	1.12	.....	0.62	0	4	22	6	3	s.	A. W. Hanes.
Eufaula.	McIntosh.	566	.....	66.4	.....	94	.....	29	23	46	5.30	.....	4.00	0	4	15	10	5	s.	R. Uhl Brown.
Fairland.	Ottawa.	839	12	62.9	+ 1.3	93	6	37	23	44	5.75	+ 2.73	2.15	0	6	19	6	6	s.	C. W. Prier.
Fort Gibson.	Muskogee.	556	7	.....	.....	90	.....	35	23	39	1.10	.....	2.25	0	5	16	3	12	e.	John T. Welsh.
Frederick.	Tillman.	1,293	5	65.2	.....	95	4	38	22	41	3.05	.....	2.29	0	4	17	8	6	se.	B. B. Bradley.
Gearv.	Blaine.	1,546	5	63.7	.....	95	4	33	22	41	1.46	.....	0.68	T.	5	23	5	4	s.	O. P. Ruth.
Goodwell.	Texas.	3,300	1	58.1	.....	86	4	23	22	48	T.	.....	T.	0	2	19	8	4	s.	S. W. Black.
Guthrie.	Logan.	1,000	19	64.1	+ 1.1	90	4	31	23	43	3.50	+ 0.79	1.25	0	4	26	0	5	s.	S. E. Snyder.
Hartshorne.	Texas.	3,133	2	69.0	+ 4.4	96	4	31	23	40	3.14	.....	T.	0	0	19	8	4	s.	A. L. Mordt.
Healdton.	Pittsburg.	700	13	69.0	+ 4.4	96	4	31	23	40	3.14	- 0.76	2.20	0	5	23	5	3	s.	Frank Webber.
Helena.	Carter.	900	18	65.6	+ 2.2	97	4	33	14	47	2.78	- 0.02	1.98	0	4	15	13	3	se.	C. H. Head.
Alfalfa.	Cimarron.	1,396	4	.....	.....	95	4	38	22	41	3.05	.....	0.78	0	5	18	12	2	s.	R. E. Ellis.
Hennessey.	Kingfisher.	1,166	17	63.8	+ 0.8	99	4	34	22	49	7.76	+ 5.32	2.00	0	7	17	12	2	s.	Mrs. M. C. Parks.
Hopart.	Kiowa.	1,396	9	62.9	.....	92	4	35	23	39	3.23	.....	1.44	0	5	19	9	2	s.	Rev. J. E. Black.
Holdenville.	Hughes.	900	11	64.2	+ 2.3	94	4	34	23	39	4.04	+ 1.93	3.20	0	3	24	19	9	s.	Eula L. Rutherford.
Hooker.	Texas.	3,038	6	57.2	.....	89	4	24	22	54	T.	.....	T.	0	2	22	1	8	s.	H. N. Kelly.
Hurley.	Cimarron.	4,200	4	.....	.....	88	4	30	23	38	4.22	.....	0.96	0	4	22	2	7	n.	Dr. C. W. Meyers.
Idabel.	McCurtain.	474	3	.....	.....	95	6	34	23	38	4.22	.....	0.96	0	4	22	2	7	n.	M. L. Henderson.
Jefferson.	Grant.	1,062	18	59.8	+ 0.6	91	6	29	23	51	3.27	+ 0.77	1.49	0	6	23	7	1	s.	T. E. Beck.
Kenton.	Cimarron.	4,000	11	58.2	+ 0.1	83	20	25	22	47	0.23	- 0.59	0.11	1.2	3	22	6	3	s.	Wm. H. Guy.
Kingfisher.	Kingfisher.	1,046	15	64.7	+ 1.7	97	4	31	23	48	2.12	- 0.68	1.26	0	8	16	13	2	s.	J. C. Cross.
Lawton.	Comanche.	1,111	.....	.....	.....	96	4	34	23	40	3.67	- 0.29	3.24	0	3	24	6	1	s.	F. C. Davis.
McAlester.	Pittsburg.	698	15	68.0	.....	96	4	34	23	40	3.67	- 0.29	3.24	0	3	22	3	6	s.	Wm. Noble.
Mangum.	Greer.	1,585	19	62.8	0.0	94	5	32	22	48	1.60	- 0.32	1.10	0	4	24	1	6	s.	F. D. Dodson.
Marlow.	Stephens.	1,292	11	63.8	+ 0.9	94	4	33	23	46	3.04	+ 0.57	1.52	0	3	18	9	4	se.	Wm. B. Anthony.
May.	Harper.	1,280	5	58.0*	.....	90	.....	22	23	55	0.65	.....	0.38	T.	1	21	3	2	s.	G. C. Gray.
Meeker.	Lincoln.	1,030	18	65.6	+ 4.4	97	4	25	23	50	1.40	- 1.51	1.40	0	1	26	3	2	s.	Dr. J. H. Baugh.
Muskogee.	Muskogee.	614	13	65.8	+ 2.9	95	6	34	23	38	4.22	- 0.96	2.95	0	4	22	2	7	n.	Dr. Harry Randall.
Woodward.	Woodward.	4	63.0	.....	.....	94	4	31	22	50	0.83	.....	0.83	0	1	26	2	3	s.	Thos. Martin.
Neola.	Caddo.	1,500	6	64.2	.....	95	4	35	22	41	1.90	.....	0.05	0	4	18	11	2	se.	R. N. Schooling.
Newkirk.	Kay.	1,149	14	64.2	+ 3.4	94	4	35	23	39	3.43	+ 1.13	1.35	0	6	21	7	3	s.	P. H. Albright & Co.
Norman.	Cleveland.	1,171	17	64.0	+ 1.1	95	4	30	23	42	2.37	- 0.77	1.50	0	6	14	14	3	s.	S. E. Boyd.
North Muskogee.	Muskogee.	4,200	13	.....	.....	88	4	28	22	47	0.77	.....	0.74	0	2	23	6	2	sw.	J. E. Walker.
Oakwood.	Dewey.	1,854	2	61.2	.....	92	4	32	23	45	1.48	.....	0.64	0	4	20	8	3	s.	Dr. F. P. Osborn.
Okeene.	Blaine.	1,194	7	62.4	.....	94	4	33	23	45	1.95	.....	1.20	0	5	19	10	2	s.	Dr. L. H. Murdoch.
Okemah.	Okfuskee.	624	6	63.4	.....	95	4	34	23	38	4.42	.....	3.40	0	4	22	5	4	s.	S. F. Smith.
Oklahoma.	Oklahoma.	1,247	22	63.6	+ 2.3	93	4	37	22	34	1.38	- 0.45	1.12	0	5	21	5	5	s.	U. S. Weather Bureau.
Omulgee.	Omulgee.	752	7	67.4	.....	97	4	33	23	45	3.61	.....	2.00	0	4	16	4	11	s.	J. L. Maynard.
Pauls Valley.	Garvin.	880	11	64.8	+ 2.2	97	4	31	23	46	3.55	+ 0.53	3.33	0	2	22	8	1	s.	A. M. Foss.
Osage.	Garvin.	918	11	64.3	+ 2.7	91	4	29	23	52	2.73	- 1.60	1.80	0	4	20	9	2	s.	R. C. Block.
Perry.	Noble.	920	13	63.1	+ 0.9	94	4	36	22	44	8.96	+ 5.71	4.24	0	7	19	9	3	s.	S. E. Laird.
Rankin.	Rogers Mills.	2,200	8	58.8	.....	90	4	33	23	52	3.26	.....	0.74	0	2	23	6	2	sw.	Roy Kagay.
Ravia.	Johnston.	796	9	68.8	.....	97	4	33	23	43	1.76	- 1.36	1.60	0	3	14	12	5	nw.	R. G. Gupfill.
Sac and Fox Agency.	Lincoln.	900	18	67.6	+ 5.8	95	5	28	23	42	2.23	- 0.55	1.90	0	4	11	19	1	s.	Thos. Myers.
Shawnee.	Pottawatomie.	1,041	10	63.0	+ 1.1	95	4	30	23	42	2.23	- 0.55	1.90							

TABLE 1.—Climatological data for October, 1912. District No. 7—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unadjusted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of overcast days.			
<b>Missouri—Contd.</b>																					
Marble Hill.....	Bollinger.....	420	21	59.7	+ 2.1	87	6	27	25	45	2.10	- 0.31	0.93	0	3	18	10	3	sw.	A. F. Hendrix.	
Mountingrove.....	Wright.....	1,490	14	59.6	+ 2.0	85	6	28	23	36	4.01	+ 1.46	1.37	0	8	15	5	8	se.	Mo. Fruit Exp. Station.	
Mount Vernon.....	Lawrence.....	1,480	36	60.5	+ 1.1	90	6	27	23	40	3.96	+ 0.64	1.56	0	6	21	6	4	sw.	J. R. White & Son.	
Neosho.....	Newton.....	1,023	30	60.9	+ 1.7	90	6	27	23	48	4.77	+ 1.60	1.90	0	7	22	2	7	se.	W. O. Buck.	
New Madrid.....	New Madrid.....	285	19												5	23	3	5	se.	Miss Josie Smith.	
Oakfield.....	Franklin.....	703	21	60.4	+ 1.7	88	6	30	23	35	2.54	+ 0.06	1.26	0	6	14	12	5	s.	E. E. Steines.	
Olden.....	Howell.....	1,246	33	61.0	+ 2.1	86	6	32	23	38	3.51	+ 1.07	1.60	0	4	20	9	2	sw.	J. D. Evans.	
Rolla.....	Phelps.....	1,139	32	59.8	+ 5.6	86	6	23	23	36	5.95	+ 0.51	1.31	0	7	23	3	5	sw.	Prof. P. J. Wilkins.	
Springfield.....	Greene.....	1,350	26	59.6	+ 2.3	85	6	32	31	34	3.39	+ 0.57	1.66	0	8	20	6	5	s.	U. S. Weather Bureau.	
<b>Kentucky.</b>																					
Blandville.....	Ballard.....	445	31	62.0	+ 3.9	86	6†	36	23†	31	4.40	+ 1.67	2.41	0	3	16	11	4	sw.	E. W. Horr.	
<b>Tennessee.</b>																					
Arlington.....	Shelby.....	30	60.6	+ 1.5	88	6	34	24†	40	3.09	+ 0.89	0.92	0	5	12	8	11	s.	A. Thomas B. Etheridge.		
Bolivar.....	Hardeman.....	450	25	61.0	+ 1.3	86	10†	34	24	37	1.92	- 0.63	1.20	0	5	14	2	15	n.	Miss Mary A. Smith.	
Brownsville.....	Haywood.....	361	27	62.0	+ 1.6	86	9†	34	24	38	2.82	+ 0.36	1.11	0	5	20	6	5	se.	Miss Hattie N. Moses.	
Covington.....	Tipton.....	311	25	61.5	+ 1.0	85	9	36	24	32	3.69	+ 1.33	2.07	0	6	23	0	8	n.	James S. Ruffin.	
Dyersburg.....	Dyer.....	310	29	62.7	+ 2.9	88	6†	36	24	37	3.85	- 0.64	1.50	0	2	20	6	5	se.	Miss Martha A. Sinclair.	
Jackson.....	Madison.....	450	19	62.6	+ 2.3	91	9	32	24	51	2.55	+ 0.10	1.35	0	5	18	10	3	sw.	Shelby A. Robert.	
Kenton.....	Obion.....	325	10	60.6*	- 0.1	89	6†	29	24	42†	2.49	- 0.31	1.70	0	4	21	7	3	s.	George S. Martin.	
Memphis.....	Shelby.....	403	41	64.6	+ 2.1	86	5	41	26	36	2.64	- 0.10	2.07	0	5	18	6	7	ne.	U. S. Weather Bureau.	
Milan.....	Gibson.....	440	29	61.0	+ 2.3	88	9	33	24	38	2.86	+ 0.38	1.20	0	4	16	5	10	s.	Orlando F. Cantwell.	
Trenton.....	do.....	345	29																	F. L. Dennison.	
Union City.....	Obion.....	360	14																	J. B. Kimzey.	
<b>Arkansas.</b>																					
Alicia.....	Lawrence.....	8	60.9	+ 0.6	87	9	33	23†	37	2.95	- 0.64	1.65	0	3	22	8	1	s.	McCullough & Guelck.		
Amity.....	Clark.....	250	20	63.8	+ 0.6	92	7	37	23	35	4.37	+ 1.44	2.50	0	3	23	4	6	sw.	J. W. Campbell.	
Arkadelphia (near).....	do.....	250	5	64.6		89	7	41	23†	33	2.22		0.78	0	4	25	0	6	sw.	J. A. Ross.	
Arkansas City.....	Desha.....	145	29																	W. C. Blundell.	
Batesville.....	Independence.....	271	7																	Lelia J. Teter.	
Bee Branch.....	Van Buren.....	20	64.4	+ 2.0	93	4	35	23	42	3.30	+ 0.90	1.55	0	4	20	4	7				
Benton.....	Saline.....	283	5	64.0		94	6	36	23	44	4.10		4.00	0	2	20	7	4	n.	P. B. Jackson.	
Bentonville.....	Benton.....	1,303	7	60.2	+ 2.2	87	6	31	23	36	4.49	+ 1.68	2.77	0	7	16	6	9	s.	U. S. Weather Bureau.	
Bergman.....	Boone.....	1,324	15	56.2	- 1.9	86	6	22	23	42	3.32	+ 1.13	2.00	0	4	17	9	5	nw.	John T. Maxey.	
Black Rock.....	Lawrence.....	259	8																	S. W. Howe.	
Brinkley.....	Monroe.....	226	26	64.8	+ 2.9	92	6	36	26	41	3.61	+ 1.17	2.97	0	3	3	3	3	sw.	H. L. D. Whitton.	
Calico Rock.....	Izard.....	361	8																	W. H. Stoner.	
Camden.....	Ouachita.....	158	27	65.4	+ 2.0	94	7	33	23	42	1.11	- 1.25	0.69	0	4	13	11	7	ne.	R. K. Quarterman.	
Centerpoint.....	Howard.....	470	12	66.5	+ 1.6	93	7	40	23	36	2.88	- 0.05	2.00	0	4	21	3	7	sw.	J. M. Huddleston.	
Clarendon.....	Monroe.....	171	8																	Mrs. B. E. Bishop.	
Conway.....	Faulkner.....	309	29	62.6	+ 1.5	89	6	38	24	37	5.64	+ 3.47	4.03	0	6	21	6	4	e.	G. M. Burr.	
Corning.....	Clay.....	293	20	61.9	+ 3.1	88	6†	31	24	39	2.53	+ 0.06	1.29	0	3	14	8	9	s.	Jacob Brobst.	
Dardanelle.....	Yell.....	330	26	62.4		91	7	35	23	39	3.30	+ 1.00	2.15	0	4					A. Bernard.	
Dodd City.....	Marion.....	1,175	31																	Neal Dodd.	
Dumas.....	Desha.....																			Lawrence Waterman.	
Dutton.....	Madison.....	10	60.2																	J. M. Ricketts.	
Eldorado.....	Union.....	265	8	67.8		91	4†	44	23	37	1.27		0.92	0	3	18	7	6	s.	Jeff J. Babb.	
England.....	Lomoko.....	6	65.2																	J. C. Chenault.	
Eureka Springs.....	Carroll.....	1,465	10	63.6	+ 4.2	93	4†	28	23	44	4.14	+ 1.51	1.77	0	6	17	9	5	sw.	George W. Nichoalds.	
Fayetteville.....	Washington.....	1,451	23	62.0	+ 1.6	89	4†	30	23	39	4.43	+ 1.38	1.96	0	6	15	13	3	sw.	University of Arkansas.	
Fordyce.....	Dallas.....		65.4																	A. Tredick.	
Fort Smith.....	Sebastian.....	481	30	64.8	+ 3.1	93	4	38	23	36	1.92	- 0.91	1.63	0	5	14	6	11	e.	U. S. Weather Bureau.	
Fraziers Turnpike.....	Pulaski.....																			R. F. Brown.	
Fulton.....	Hempstead.....	264	8																	B. C. Logan.	
Hardy.....	Sharp.....	643	14	62.0	+ 0.8	89	6	33	23†	33	2.81	+ 0.40	0.86	0	1	6	11	12	sw.	C. A. Caywood.	
Helena.....	Phillips.....	182	27	63.8	+ 1.5	85	6†	41	23†	29	2.05	- 0.29	0.72	0	4	5	22	6	3	se.	B. F. Modisett.
Hot Springs.....	Garland.....	600	20	67.4	+ 4.2	96	7	42	23†	37	5.10	+ 2.48	3.30	0	5	22	6	3	sw.	Army and Navy Gen. Hos.	
Huttig.....	Union.....	85	5	67.1		92a	6†	38*	26	39*	1.33		1.05	0	3	17	9	5	sw.	C. A. Berry.	
Jonesboro.....	Craighead.....	345	17	63.8	+ 2.0	92	6	34	26	40	2.65	- 0.01	2.20	0	3	13	17	1	s.	Benedictine Sisters.	
Junction Union.....	Union.....	19	67.0	+ 3.5	90	5†	43	23	32	2.10	- 1.12	1.12	0	3	23	4	4	sw.	J. A. Lowerback.		
Lake Farm.....	Jefferson.....	195	5																	G. L. Spellman.	
Lewisville.....	Lafayette.....	262	9	68.0		95	6	40	23†	42	0.85		0.40	0	4	23	6	2		G. W. Youmans.	
Little Rock.....	Pulaski.....	357	34	64.7	+ 1.8	90	6	43	23	29	3.87	+ 1.32	2.68	0	5	18	9	4	e.	U. S. Weather Bureau.	
Luterville.....	Johnson.....	775	15	62.8	+ 1.1	90	4†	34	23	39	3.78	+ 0.59	2.05	0	4	14	15	2	w.	W. R. Hentschel.	
Malvern.....	Hot Springs.....	277	25	64.6	+ 1.5	93	7	38	23	40	3.05	+ 0.89	2.10	0	3	20	0	11	sw.	Miss L. C. Smith.	
Mammoth Spring.....	Fulton.....	512	8	60.4		90	9	29	24	44	2.29		1.05	0	4	13	15	3	sw.	F. Wallack.	
Marked Tree.....	Poinsett.....	229	8																	Chapman & Dewey Lum. Co.	
Mena.....	Polk.....	1,100	26	65.0	+ 2.6	90	4†	39	23	43	4.82	+ 2.34	2.33	0	4	22	2	7	sw.	R. H. St. John.	
Newport.....	Jackson.....	231	28	62.8	+ 2.1	91	9	37	24	43	4.53	+ 2.58	3.50	0	5	20	4	7	sw.	Chas. Sprigg.	
Pine Bluff.....	Jefferson.....	215	24	64.6	+ 1.3	92	6†	39	26	49											

TABLE 1.—Climatological data for October, 1912. District No. 7—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.								Precipitation, in inches.								Sky.	Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Greatest in 24 hours.	Departure from the normal.	Total snowfall, unmeasured.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.				
<i>Mississippi.</i>																						
Anguilla.	Sharkey.	107	4	66.5	.....	92	7	35	26	36	1.30	.....	1.30	0	1	17	10	4	s.	E. W. Cook.		
Austin.	Tunica.	200	16	63.5	+ 0.9	89	6†	35	24	38	2.43	+ 0.15	1.65	0	3	25	3	3	n.w.	H. J. Irvine.		
Batesville.	Panola.	230	25	64.9	+ 3.6	92	5†	36	24†	41	2.25	+ 0.56	1.50	0	4	20	3	8	w.	J. M. Cox.		
Big Creek.	Calhoun.	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. P. Havens.		
Canton.	Madison.	228	22	68.2	+ 3.8	92	8	38	26	40	0.79	— 1.37	0.28	0	5	15	12	4	s.	Dr. G. W. Smith-Vaniz.		
Charleston.	Tallahatchie.	2	66.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. B. Burke.		
Clarksdale.	Coahoma.	177	5	64.4	.....	89	7	37	26	38	1.99	.....	1.17	0	4	12	4	15	n.	A. C. Tuttle.		
Cleveland.	Bolivar.	160	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. W. Boone.		
Coffeeville.	Yalobusha.	241	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. K. Bailey.		
Corinth.	Alcorn.	470	24	63.0	+ 2.1	88	5†	35	25	38	1.95	— 0.13	1.02	0	3	17	3	11	se.	M. A. Candler.		
Crenshaw.	Panola.	187	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mrs. A. L. Fitzgerald.		
Duck Hill.	Montgomery.	13	65.7	+ 3.5	90	7†	35	26	40	2.05	+ 0.31	1.35	0	2	14	15	2	s.	W. H. Eskridge.			
Edwards.	Hinds.	222	25	70.3	+ 4.9	95	4	36	26	36	0.45	— 1.99	0.40	0	2	22	6	3	ne.	E. F. Farr.		
Fayette.	Jefferson.	270	11	68.0	+ 3.1	92	8	34	26	42	0.66	— 1.78	0.56	0	2	16	10	5	ne.	T. L. Darden.		
Greenville.	Washington.	126	26	67.5	+ 3.3	92	5†	39	26	38	1.04	— 0.99	0.58	0	5	19	1	11	se.	F. L. Harbison.		
Greenwood.	Leflore.	140	12	66.4	+ 2.9	92	7	37	26	42	1.79	— 0.03	0.94	0	4	15	6	10	ne.	J. H. Stephen.		
Grenada.	Grenada.	194	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. A. Jones.		
Hernando.	De Soto.	391	24	65.0	+ 2.6	90	6	38	23†	37	1.67	.....	0.77	0	5	20	4	7	s.	W. F. Wood.		
Hickory Flat.	Benton.	435	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. Powell.		
Holly Springs.	Marshall.	600	25	63.4	+ 1.7	86	9	39	23†	31	3.66	+ 1.59	1.48	0	4	19	2	10	se.	L. B. Mosby.		
Kosciusko.	Attala.	430	22	66.4	+ 4.1	92	8	38	24	39	3.39	+ 1.13	2.91	0	6	21	5	5	e.	E. L. Lucas.		
Malone.	Marshall.	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. J. Wilkins.		
Marks.	Quitman.	163	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. L. Garrity.		
Natchez.	Adams.	206	24	68.5	+ 1.5	91	6†	41	26†	39	1.71	— 0.94	1.00	0	4	24	0	7	n.	H. Marshall.		
New Albany.	Union.	398	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dr. C. W. Bolton.		
Pontotoc.	Pontotoc.	475	23	63.8	+ 1.5	87	9	37	24†	33	2.84	+ 1.26	1.75	0	3	15	13	3	se.	H. H. Crisler.		
Port Gibson.	Claiborne.	116	24	67.1	+ 2.9	93	8	35	26	43	1.48	— 0.54	1.00	0	7	16	5	10	n.w.	T. J. Murray.		
Rosedale.	Bolivar.	143	4	64.3	.....	90	5†	34	25†	45	0.55	— 0.25	0	4	20	1	10	s.	C. Brickell.			
Senatobia.	Tate.	284	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. C. Pitchford.		
Shoaloe.	Madison.	9	67.4	.....	.....	90	6†	35	26	38a	2.12	— 0.52	1.22	0	2	21	4	6	ne.	Prof. G. H. Kent.		
Sifolk.	Franklin.	11	69.3	+ 3.2	91	7†	41	26	35	1.74	— 0.61	0.84	0	6	18	8	5	n.	W. J. Hawkins.			
Swan Lake.	Tallahatchie.	148	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dr. M. P. Winkler.		
Tchula.	Holmes.	130	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. J. H. Dorroh.		
University.	Lafayette.	502	19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dr. J. B. Dudley.		
Utica.	Hinds.	287	8	68.6	.....	97	11	35	26	41	0.83	.....	0.48	0	4	.....	.....	.....	.....	N. L. Weather Bureau.		
Vicksburg.	Warren.	247	41	68.4	+ 3.1	88	7	44	26	31	1.19	— 0.81	1.11	0	4	14	10	7	e.	Miss Louie Erikson.		
Water Valley.	Yalobusha.	300	23	66.3	+ 3.4	92	10	37	26	37	3.25	+ 0.74	2.25	0	3	20	9	2	e.	James E. Lee.		
Woodville.	Wilkinson.	560	19	70.1	+ 3.5	92	8	43	24†	32	0.93	— 1.74	0.78	0	3	23	8	0	n.	W. H. Courts.		
Yazoo City.	Yazoo.	116	18	67.0	+ 2.7	91	8	34	26	41	0.78	— 1.09	0.58	0	2	19	0	12	n.			
<i>Louisiana.</i>																						
Abbeville.	Vermilion.	18	24	71.3	+ 2.4	92	5	43	26	35	1.68	— 1.65	1.30	0	4	18	5	8	n.	C. J. Edwards.		
Alexandria.	Rapides.	77	24	68.6	+ 2.4	94	7	42	26†	37	1.20	— 1.90	0.75	0	2	14	3	14	se.	Nellie Graham.		
Amite.	Tangipahoa.	130	24	69.6	+ 3.2	97	11	42	26	36	3.50	+ 1.03	2.00	0	5	24	2	2	n.	Lulu M. Wentz.		
Antioch.	Claiborne.	62.8	.....	96	6	33	23	41	0.78	.....	0.55	0	4	25	0	6	1	s.	W. L. Anglin.			
Avoca Island.	St. Mary.	1	.....	.....	.....	.....	.....	.....	.....	.....	2.20	— 1.30	0	4	23	0	8	1	se.	J. N. Pharr & Sons (Ltd.).		
Baton Rouge.	East Baton Rouge.	60	24	71.2	+ 3.3	91	7†	45	26	33	1.16	— 2.08	1.70	0	6	15	3	13	ne.	Elmo M. Bott.		
Burnside.	Ascension.	20	12	71.8	+ 3.4	93	8†	43	26	37	3.40	+ 0.49	2.05	0	4	18	5	8	e.	C. S. McFarland.		
Burwood.	Plaquemines.	1	24	76.5	+ 3.0	88	12	59	26	19	15.97	+ 11.82	5.56	0	10	17	3	11	ne.	Graham Meyers.		
Cades.	St. Martin.	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. E. Smedes.		
Calhoun.	Ouachita.	180	24	67.2	+ 2.7	92	5	37	26	41	1.19	— 1.07	0.63	0	2	17	11	3	1	se.	North Louisiana Expt. Sta.	
Cameron.	Cameron.	6	19	68.3	- 1.2	97	2	41	27	42	4.39	+ 1.45	2.34	0	5	17	10	4	ne.	Adolph Bruckert.		
Carrollton.	Orleans.	7	1	72.0	.....	90	9†	48	26	31	2.38	— 0.91	0.91	0	5	24	0	6	1	se.	Loyola College.	
Cheneyville.	Rapides.	67	24	68.0	+ 2.2	94	8	37	27	41	0.73	— 1.16	0.47	0	2	15	5	11	1	se.	Walter I. Tanner.	
Cinclare.	West Baton Rouge.	2	71.0	.....	91	10†	43	25	34	1.70	— 1.00	0	6	13	4	14	1	e.	Cinclare Central Factory.			
Clinton.	East Feliciana.	113	24	69.2	+ 2.5	89	8	43	26	35	0.92	— 1.58	0.68	0	5	12	11	8	s.	John A. White.		
Collinston.	Morhouse.	65	11	68.6	+ 3.7	95	5†	35	26	41	1.66	— 0.48	0.80	0	3	16	7	8	s.	John B. Reily.		
Columbia.	Caldwell.	39	20	71.2	+ 4.0	92	6†	44	24	38	1.52	— 1.25	0.40	0	6	13	4	15	n.w.	H. W. Blanks.		
Covington.	St. Tammany.	177	24	66.8	+ 3.0	91	6	38	25	36†	2.38	— 0.70	2.00	0	3	17	5	9	n.	Cecile P. Champagne.		
Dodson.	Winn.	3	69.4	.....	94	6†	40	26	39	1.45	— 0.80	0	1	.....	.....	.....	.....	.....	J. P. Lucas.			
Donaldsonville.	Ascension.	33	24	73.6	+ 4.2	92	3†	48	26	29	2.11	— 0.87	0.86	0	5	18	4	9	ne.	John F. Park.		
Dutchtown.	do.	1	.....	.....	.....	.....	.....	.....	.....	.....	1.00	— 0.60	0	2	20	6	5	9	1	Picard & Geismar (Ltd.).		
Farmerville.	Union.	177	24	66.8	+ 3.0	91	6	38	25	36†	2.38	— 0.70	2.00	0	3	17	5	9	n.	W. P. Chandler.		
Ferriday.	Concordia.	5	70.6	.....	88	1†	40	26	34	0.80	— 0.81	0.84	0	9	15	9	7	1	se.	C. L. Achor.		
Franklin.	St. Mary.	10	20	72.2	+ 3.4	94	11	48	27	37	2.32	— 0.8										

TABLE 1.—Climatological data for October, 1912. District No. 7—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.								Precipitation, in inches.								Sky.	Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.				
<b>Louisiana—Continued.</b>																						
Opelousas.....	St. Landry.....	83	20	66.8	— 0.4	86	8	39	26	38	1.00	— 1.61	0.43	0	5	13	4	14	n.	Andrew Moresi.		
Paradis.....	St. Charles.....	1	6	.....	.....	.....	.....	1.15	.....	.....	0.75	0	3	20	2	9	n.	.....	R. E. Boyce.			
Pearl River.....	St. Tammany.....	29	6	.....	.....	.....	.....	1.66	.....	.....	0.60	0	5	20	2	7	ne.	.....	George F. Banks.			
Plain Dealing.....	Bossier.....	208	20	69.1	+ 2.8	92	4†	39	27	37	0.79	— 1.84	0.40	0	3	23	1	7	ne.	.....	Leon Sanders.	
Rayne.....	Arcadia.....	44	20	71.4	+ 2.7	94	8†	46	28	39	1.77	— 0.97	0.60	0	5	13	1	17	n.	.....	A. P. McNeil.	
Reserve.....	St. John Baptist.....	11	72.8	+ 5.0	97	9	44	26	41	2.44	+ 0.29	0.87	0	5	15	10	6	.....	.....	Leon Godchaux Co. (Ltd.).		
Richland Plantation.....	Rapides.....	68.0	.....	93	4	42	27	34	1.15	.....	0.70	0	5	23	4	4	ne.	.....	A. B. Pendleton.			
Robeline.....	Natchitoches.....	147	16	67.6	+ 3.3	95	5†	35	27	47	0.25	— 2.47	0.25	0	1	17	4	10	s.	Ruby McCook.		
Ruston.....	Lincoln.....	312	17	69.6	+ 3.5	95	21	41	22	44	1.31	— 1.40	0.86	0	3	19	0	12	.....	Andor M. Larson.		
St. Francisville.....	West Feliciana.....	115	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	G. W. Newman.	
Schriever.....	Terrebonne.....	17	20	71.5	+ 3.3	95	5	44	26	39	1.35	— 2.00	0.50	0	3	13	11	7	e.	Wm. Gautraux.		
Shreveport.....	Caddo.....	249	41	67.6	+ 2.1	90	11	44	23	34	0.90	— 2.28	0.62	0	5	19	6	6	ne.	U. S. Weather Bureau.		
Simmesport.....	Avoyelles.....	42	6	.....	.....	.....	.....	1.40	.....	.....	0.56	0	6	8	2	21	n.	.....	C. T. Leigh.			
Southern University Farm.	Jefferson.....	15	.....	.....	.....	.....	.....	1.40	— 0.99	0.68	0	4	18	4	9	se.	.....	F. L. St. Martin.				
Sugartown.....	Calcasieu.....	19	69.4	+ 2.2	89	4†	44	27	34	1.00	— 1.98	1.00	0	1	21	6	4	.....	.....	G. W. Richardson.		
Tallulah.....	Madison.....	91	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Neal T. Halt.		
Walker.....	Livingston.....	2	69.4	.....	90	8†	39	25	40	0.46	.....	0.40	0	2	13	17	1	sw.	.....	H. C. Fondren.		
Winnssboro.....	Franklin.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. C. Carlton.		

a, b, c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.

\*\* Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.

† Also on other dates.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for October, 1912. District No. 7, Lower Mississippi Valley.*

Stations.	Watershed.	Day of month.																													Total.																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31															
<i>Colorado.</i>																																															
Buena Vista.....	Arkansas.....		.15			.02			.02																									.40	0.66												
Calhan.....	Big Sandy.....		.34																																.10	.05	0.83										
Canon City  .....	Arkansas.....	.04	.21	T.	T.					T.	T.																								.08	0.70											
Colorado Springs.....	Fountain.....		.05							T.	.01	T.																							.09	.15	0.62										
Cripple Creek.....	Oil Creek.....		.35							.18																											.02	0.84									
Cuchara Camps.....	Cucharas.....		.92							T.																												.30	0.30								
Eads.....	Big Sandy.....																																														
Fairview.....	St. Charles.....																																														
Fremont Experiment Station  .....	Fountain.....	T.																																													
Garfield.....	Little Ark'ns.....	T.	T.																																												
Hamps.....	Big Sandy.....		.08	.05	T.	T.																																									
Hermit Lake.....	Grape Creek.....		.50	.62																																											
Hoehne (near).....	Purgatoire.....		.46																																												
Holly.....	Arkansas.....																																														
Lake Moraine.....	Fountain.....																																														
Lamar.....	Arkansas.....																																														
Las Animas.....	do.....																																														
La Veta Pass.....	Cucharas.....	T.	.29	.34																																											
Leadville.....	Arkansas.....		.06	.04	.16	.02	T.																																								
Limon (near).....	Big Sandy.....		.15																																												
Madrid.....	Purgatoire.....		.09		.95																																										
Marshall Pass.....	Arkansas.....		.11																																												
Maxey.....	do.....																																														
Moument.....	Fountain.....		.23																																												
North Lake.....	Purgatoire.....	.28	.06		.62																																										
Pueblo.....	Arkansas.....		.26																																												
Rocky Ford.....	do.....																																														
St. Elmo.....	Chalk Creek.....	.10																																													
Salida  .....	Arkansas.....																																														
Santa Clara.....	Huerfano.....	.01	.01																																												
Sheridan Lake.....	Arkansas.....																																														
Stonewall.....	Purgatoire.....	.22	.23	.07																																											
Trinidad.....	do.....	.02	.02																																												
Two Buttes.....	Arkansas.....																																														
Two Buttes Res'r.....	do.....																																														
Victor.....	Oil Creek.....	T.		.40		T.																																									
Vilas.....	Cimarron.....																																														
Wayne.....	Grape Creek.....	T.		.36	.08																																										
Westcliffe.....	Clear Creek.....																																														
Winfeld.....	Fountain.....																																														
Woodman Sanato'm.....	Arkansas.....		.40	.20																																											
Wortman.....	Canadian.....																																														
<i>New Mexico.</i>																																															
Abbott.....	Canadian.....																																														
Albert.....	do.....																																														
Aurora.....	do.....	.05																																													
Bell Ranch.....	do.....																																														
Black Lake.....	do.....	.07																																													
Cabeza.....	do.....																																														
Campana.....	do.....																																														

TABLE 2.—*Daily precipitation for October, 1912. District No. 7—Continued.*

TABLE 2.—*Daily precipitation for October, 1912. District No. 7—Continued.*

TABLE 2.—*Daily precipitation for October, 1912. District No. 7—Continued.*

TABLE 2.—*Daily precipitation for October, 1912. District No. 7—Continued.*

\* Precipitation included in that of the next measurement.

<sup>†</sup> Separate dates of falls not recorded.

Precipitation for the 24 hours ending on the morning when it is measured.  
Precipitation is less than 0.01 inch rain or melted snow.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—Maximum and minimum temperatures at selected stations for October, 1912. District No. 7, Lower Mississippi Valley.

Date.	Tennessee.				Arkansas.												Mississippi.											
	Kenton.		Memphis.		Bentonville.		Corning.		Dardanelle. §§		El Dorado. §§		Fort Smith.		Little Rock.		Pine Bluff. §§		Texarkana. §§		Wynne. §§		Clarksdale. §§		Corinth. §§		Greenville. §§	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1....	33	69	49	73	38	73	39	73	43	72	50	74	47	71	51	76	46	81	51	71	39	74	44	72	42	78	51	
2....	74	50	77	47	76	38	78	43	83	49	78	50	81	44	85	50	77	40	80	45	80	42	84	51	84	51		
3....	85	79	61	82	52	82	49	85	48	87	50	87	54	88	56	87	45	93	50	84	52	83	47	82	46	87	53	
4....	84	62	87	53	87	52	89	51	91	55	93	57	86	60	91	53	96	53	82	54	86	56	84	56	90	58		
5....	88	51	86	64	84	61	87	54	90	57	87	64	85	62	91	54	94	58	86	57	88	56	86	56	92	60		
6....	89	50	84	64	87	61	88	55	90	56	90	59	93	64	90	64	92	56	95	59	90	53	88	55	91	62		
7....	80	53	80	64	74	60	84	60	91	61	91	58	89	65	85	66	92	58	95	65	77	53	89	57	88	55		
8....	85	43	83	57	79	62	82	49	87	61	90	59	87	65	86	59	91	58	94	65	86	50	88	57	86	54	90	
9....	89	62	86	70	87	68	88	65	89	60	90	60	91	68	87	64	90	60	91	65	86	66	88	57	89	63		
10....	87	60	85	67	82	68	87	67	85	62	88	61	86	69	83	67	90	62	90	64	87	65	88	62	90	61		
11....	83	68	80	53	85	62	81	60	90	62	84	56	84	65	90	62	88	63	86	56	86	61	84	66	90	63		
12....	86	39	68	54	64	43	80	48	69	50	75	64	67	50	69	54	74	59	72	56	73	62	66	75	69			
13....	67	50	68	44	64	46	71	50	75	50	72	52	65	54	72	53	77	44	67	48	72	52	70	54	73	57		
14....	73	39	69	50	70	38	73	35	78	39	74	45	75	42	71	48	73	47	79	54	71	42	73	50	75	53		
15....	76	36	73	52	71	36	74	36	73	46	73	45	71	51	76	44	75	45	74	43	76	44	75	46	75	54		
16....	77	42	73	55	70	40	76	41	68	44	80	62	64	49	68	57	71	46	67	47	73	44	76	45	82	57		
17....	75	50	74	63	63	56	71	54	66	47	77	59	66	54	65	59	70	56	69	58	70	57	74	50	82	59		
18....	72	62	70	63	71	58	71	68	71	57	76	62	62	62	71	64	71	59	77	69	64	74	63	72	60	76		
19....	67	54	67	53	69	44	71	51	74	54	79	66	73	56	70	54	73	42	80	69	57	73	63	72	64	77		
20....	72	39	72	47	76	44	74	41	71	45	74	54	77	51	69	49	74	46	82	58	71	45	76	42	80	47		
21....	79	50	79	62	80	44	81	45	81	46	83	54	83	52	80	51	84	49	86	48	82	44	79	47	84	56		
22....	79	46	67	48	57	35	74	49	68	48	78	63	63	46	68	50	70	56	69	58	70	57	74	56	86	60		
23....	58	35	56	41	62	31	61	35	64	35	63	44	61	38	59	43	61	42	68	37	58	35	61	41	59	37	63	
24....	63	29	59	43	67	40	61	31	60	36	64	48	60	42	61	40	60	40	66	36	63	38	62	36	66	43		
25....	62	33	60	46	70	45	67	36	71	38	71	51	72	46	68	48	69	41	70	42	63	43	66	40	58	44		
26....	71	35	69	47	73	41	74	37	77	40	75	46	78	47	71	46	75	39	84	42	73	37	74	37	72	38		
27....	72	36	71	48	76	44	77	38	80	45	80	50	80	48	75	49	78	39	82	46	76	41	76	38	72	39		
28....	74	34	74	55	77	52	76	40	78	43	79	50	80	51	76	52	79	42	85	42	75	41	76	42	74	37		
29....	76	53	75	56	73	49	79	49	83	43	79	57	78	57	79	54	81	42	85	44	79	56	76	44	76	45		
30....	72	54	75	58	49	44	72	52	70	55	82	64	67	58	70	55	78	52	84	49	72	57	80	54	80	53		
31....	80	50	78	52	53	34	75	44	61	53	82	66	60	40	74	48	81	55	76	62	79	53	81	59	80	56		
Mns.	76.4	44.9	73.8	55.5	72.6	47.9	76.5	47.3	76.4	48.5	80.0	55.5	76.6	53.1	74.8	54.6	78.7	50.4	81.9	52.3	75.4	49.9	77.5	51.2	76.1	50.0	80.5	54.5
Date.	Oklahoma.												Missouri.												Kentucky.		Tennessee.	
	Enid. §§		McAlester.		Mangum. §§		Muskogee.		Oklahoma.		Weatherford. §§		Woodward.		Caruthersville.		Ironton. §§		Lamar. §§		Olden.		Springfield.		Blandville.		Jackson.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1....	69	42	83	44	78	45	76	43	75	48	79	57	76	41	78	40	70	32	75	36	72	38	69	42	69	40	85	36
2....	78	41	86	51	80	49	80	52	80	56	81	48	78	54	82	45	74	32	80	40	73	42	72	35	86	35		
3....	85	53	92	55	92	52	89	55	85	57	86	56	82	49	85	54	78	44	84	54	80	52	77	55	84	50		
4....	96	54	96	56	94	53	89	64	93	62	94	54	91	47	88	54	82	44	90	46	81	51	82	45	84	56		
5....	97	55	91	57	88	64	90	65	87	69	90	55	85	66	92	55	84	48	88	54	81	60	82	58	84	54		
6....	90	55	94	70	92	64	95	65	90	68	91	64	82	65	93	57	85	48	93	63	86	55	86	58	90	52		
7....	88	54	88	65	75	60	82	62	73	60	71	55	72	54	86	59	73	58	75	55	81	60	72	58	85	54		
8....	89	52	88	67	81	56	86	64	80	60	78	55	85	57	86	51	74	45	77	55	77	57	80	49	83	48		
9....	88	52	94	72	91	65	94	71	86	69	88	65	86	52	90	66	82	59	90	83	64	84	66	86	64	91	64	
10....	86	62	90	71	86	65	87	68	85	68	83	64	88	58	90	66	82	62	70	52	81	64	79	61	85	68		
11....	66	59	87	72	73	57	85	66	76	51	69	56	76	52	88	64	83	56	78	53	82	60	78	52	84	65		
12....	68	42	75	47	71	43	68	44	68	43	64	41	69	46	80	55	65	47	68	41	73	48	61	43	75	53		
13....	73	45	75	49	76	42	74	44	71	45	73	39	75	36	89	52	70	37	72	38	74	45	66	46	73	44		
14....	77	41	78	40	80	39	76	41	77	46	80	40	83	39	79	45	72	32	70	39								

TABLE 3.—Maximum and minimum temperatures at selected stations for October, 1912. District No. 7—Continued.

Date.	Mississippi.						Louisiana.																Shreveport.						
	Kosciusko.		Natchez.		Vicksburg.		Alexandria.		Baton Rouge.		Covington.		Lafayette.		Lake Charles.		Monroe.		New Orleans.		Robeline.		Schriever.						
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.					
1.	76	49	80	55	74	34	83	59	76	59	62	75	60	78	58	77	52	75	66	80	53	77	65	76	55				
2.	82	50	85	57	83	54	87	56	84	61	85	82	87	60	86	53	82	52	77	69	85	51	83	66	80	53			
3.	85	61	89	58	85	65	91	56	87	68	82	89	61	91	59	87	62	78	69	90	51	83	70	86	58				
4.	86	58	90	62	86	66	92	58	89	67	91	66	93	65	91	59	89	59	85	70	92	55	89	62	89	62			
5.	88	60	90	61	87	66	93	59	90	66	95	65	93	60	89	59	86	72	95	55	95	64	88	64	83	63			
6.	90	57	91	60	86	68	92	60	87	68	92	63	96	65	94	60	90	59	86	70	93	57	90	62	88	65			
7.	91	55	91	60	88	65	94	60	91	65	92	60	93	64	93	61	91	60	87	72	93	56	90	62	89	65			
8.	92	57	90	59	86	67	93	62	89	67	91	60	95	60	91	54	90	61	87	71	93	55	93	59	89	66			
9.	89	61	87	58	83	65	88	62	91	64	88	60	90	60	91	55	88	59	87	69	92	56	92	59	89	65			
10.	88	58	87	63	86	65	92	60	87	65	88	61	87	61	90	60	89	60	88	71	91	58	90	61	86	64			
11.	87	60	90	67	86	70	86	63	90	69	70	95	65	91	61	89	65	88	72	95	59	94	63	90	64	84			
12.	82	65	89	67	76	62	86	60	91	69	92	70	90	67	89	65	74	64	86	72	81	63	88	68	74	60			
13.	70	56	75	56	68	58	84	62	75	63	80	69	78	61	88	58	72	57	79	68	73	60	76	68	71	54			
14.	66	55	74	57	67	53	83	56	69	60	67	53	73	59	69	57	74	52	65	62	74	53	65	60	71	49			
15.	70	56	74	56	66	58	63	56	72	57	76	58	73	57	65	56	69	57	74	62	69	53	73	60	69	53			
16.	83	56	82	55	82	61	61	58	79	59	80	62	80	58	79	52	81	59	76	67	88	58	84	64	71	57			
17.	83	58	83	59	81	66	80	58	82	65	78	66	79	66	83	59	82	61	75	71	81	60	84	69	75	62			
18.	75	60	78	65	75	69	77	67	78	68	82	69	85	70	83	64	74	69	82	69	78	60	80	68	75	67			
19.	77	65	78	66	76	59	80	66	83	68	86	61	85	64	86	60	79	65	89	62	85	65	82	60	78	60			
20.	82	48	82	54	83	52	82	54	85	58	88	61	86	59	87	52	79	48	79	65	85	58	85	64	77	51			
21.	80	56	82	58	82	62	82	61	86	67	88	61	87	62	86	53	83	58	81	67	87	48	88	61	83	60			
22.	77	65	82	65	77	52	75	61	84	66	91	65	89	64	87	60	70	66	83	67	89	60	88	65	71	51			
23.	62	42	67	48	62	46	68	41	71	52	81	54	73	51	88	49	65	42	70	56	77	58	64	44	64	44			
24.	65	38	69	43	65	44	66	46	67	47	64	44	68	48	87	50	65	45	70	38	71	48	62	48	56	44			
25.	56	42	68	46	62	50	71	48	69	51	70	47	73	49	71	48	70	54	68	78	47	74	48	72	50				
31.	71	55	81	48	82	61	81	55	85	62	84	55	91	53	83	55	83	57	82	67	86	54	88	54	82	48			
Mns.	79.1	53.8	81.6	55.4	78.0	58.8	81.4	55.7	81.8	60.7	83.6	58.8	84.6	58.3	85.3	55.0	79.9	55.6	79.3	65.8	83.0	52.3	83.5	59.5	78.7	56.6			
	Colorado.						New Mexico.						Texas.						Kansas.						Oklahoma.				
Date.	Lamar.		Leadville.		Pueblo.		Albert.		Cimarron.		Amarillo.		Paris.		DodgeCity.		Ellinwood.		Iola.		Liberia.		Wichita.		Ardmore.	Bartlesville.			
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.					
1.	83	40	59	27	75	36	75	42	70	34	70	44	80	48	77	46	78	42	74	35	76	46	73	44	79	48	78	40	
2.	80	50	58	27	77	42	79	51	75	39	74	54	82	52	77	55	79	53	78	48	81	52	76	55	84	54	83	41	
3.	83	40	60	29	78	40	76	48	75	41	78	52	91	53	76	47	81	49	80	48	81	47	79	56	91	54	85	52	
4.	88	56	59	32	83	42	79	44	75	37	83	53	94	56	86	50	90	46	88	44	88	48	88	54	97	60	94	49	
5.	79	55	51	27	71	46	81	44	65	36	81	59	89	60	82	63	86	64	87	65	85	51	85	67	90	64	90	63	
6.	74	40	50	26	61	40	83	46	71	41	82	58	91	62	69	48	81	58	92	77	49	82	60	93	66	95	65	81	65
7.	61	38	49	26	60	41	81	45	70	34	70	52	93	63	59	44	65	45	68	50	62	63	49	88	67	75	54	81	64
8.	79	41	47	23	74	37	81	41	68	36	80	58	89	63	58	52	78	55	75	50	87	52	76	56	85	65	81	54	
9.	74	37	49	19	66	63	82	36	68	31	79	50	91	66	75	44	81	54	86	62	78	44	79	58	91	70	90	64	
10.	74	39	39	22	60	38	82	38	59	29	81	56	90	66	76	55	89	55	74	60	84	49	78	60	88	71	81	65	
11.	60	41	42	14	59	38	81	33	61	27	64	43	81	66	58	40	62	49	74	48	84	49	74	46	82	71	74	64	
12.	60	34	44	12	57	37	80	31	63	33	66	49	80	43	65	35	66	46	68	69	87	37	65	43	70	47	70	43	
13.	70	30	51	14	68	31	78	34	64	34	70	40	75	49	70	37	69	37	69	38	73	37	68	46	75	50	75	40	
14.	76	30	55	20	70	31	76	36	68	32	73	40	77	49	79	41	80	40	74	35	80	35	78	45	77	41	77	39	
15.	75	31	56	21	69	31	80	37	65	33	73	46	77	48	79	40	78	37	65	36	76	32	72	46	77	40	74	40	
16.	80	41	50	23	77	31	74	33	72	29	80	45	83	48	73	38	72	41	76	34	70	52	66	55	75	42	82	56	
17.	82	34	51	25	80	38	83	37	76	36	81	44	65	54	80	43	62	48	78	48	83	37	77	47	62	54	78	42	
18.	73	38	56	27	76	47	82	36	77	42	82	45	75	54	73	44	71	47	76	48	83	35	72	52	75	57	78	60	
19.	74	35	51	22	70	30	78	34	71	30	65	50	80	59	67	35	68	32	66	35	69	32	67	44	76	57	74	45	
20.	78	44	46	24</																									